

Table-S1 (Chemical structures of compounds with names and target activity)

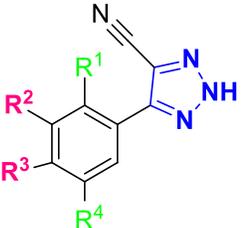
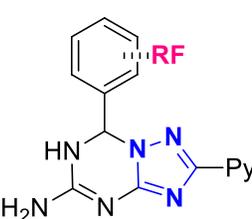
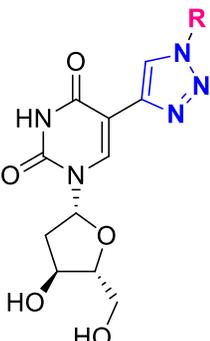
Chemical structure	No. of compounds / derivatives	Target/Activity	Reference
Anticancer Triazoles			
<p>4-aryl-5-cyano-2H-1,2,3-triazole (1-2)</p> 	<p>1: R¹ = H; R² = H; R³ = F; R⁴ = H 2: R¹ = H; R² = F; R³ = Ph; R⁴ = H</p>	Breast cancer cell line (MDA-MB-453)	(Cheng, Li et al. 2007)
<p>7-aryl-2-pyridyl-6,7-dihydro[1,2,4]triazolo[1,5-a][1,3,5]triazin-5-amine (3-14)</p> 	<p>Py = 3-Py: RF = 3: 2-F; 4: 2-CF₃, 5: 3-F, 6: 3-CF₃, 7: 4-F, 8: 4-CF₃ Py = 4-Py, 9: 2-F; 10: 2-CF₃, 11: 3-F, 12: 3-CF₃, 13: 4-F, 14: 4-CF₃</p>	Breast cancer cell line (MDA-MB-231), Colon cancer cell line (HT-29) And Lung cancer cell line A549,	(Dolzhenko, Tan et al. 2008)
<p>1-((2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-5-(1-Aryl-1H-1,2,3-triazol-4-yl)pyrimidine-2,4(1H,3H)-dione (15-19)</p> 	<p>15: R = -CH₂CH₂CF₂CF₃ 16: R = -CH₂CH₂(CF₂)₃CF₃ 17: R = -CH₂CH₂(CF₂)₅CF₃ 18: R = -CH₂CH₂(CF₂)₇CF₃ 19: R = -CH₂CH₂(CF₂)₉CF₃</p>	Human breast cancer cell line (MDA-MB-231), Renal cancer cell line (ACHN), and Prostate cancer cell line (PC-3)	Park, Yang et al. 2010)

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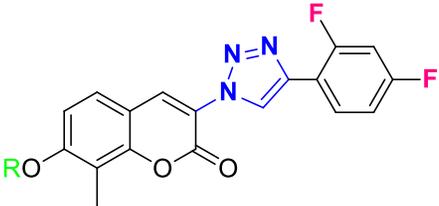
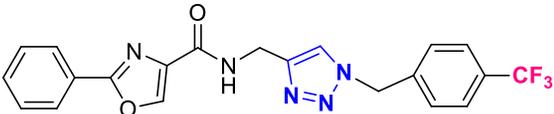
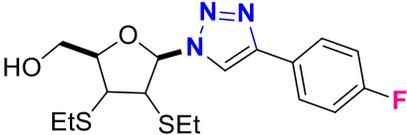
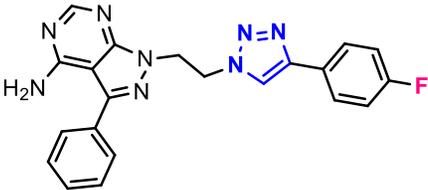
<p>3-(4-(2,4-difluorophenyl)-1H-1,2,3-triazol-1-yl)-7-(Arylperoxy)-8-methyl-2H-chromen-2-one (20-21)</p> 	<p>20: R = OH 21: R = OAc</p>	<p>Two breast cancer cell lines (MCF-7, SKBr-3)</p>	<p>(Peterson and Blagg 2010)</p>
<p>2-phenyl-N-((1-(4-(trifluoromethyl)benzyl)-1H-1,2,3-triazol-4-yl)methyl)oxazole-4-carboxamide (22)</p> 	<p>22</p>	<p>Breast cancer cell line (MCF-7), human leukemia cell line (HL-60), and Melanoma cell line (MDA-MB-435)</p>	<p>(Stefely, Palchaudhuri et al. 2010)</p>
<p>((2R,5R)-3,4-bis(ethylthio)-5-(4-(4-fluorophenyl)-1H-1,2,3-triazol-1-yl)tetrahydrofuran-2-yl)methanol (23)</p> 	<p>23</p>	<p>Human hepatocellular liver carcinoma cell line (HepG2)</p>	<p>(Yu, Wu et al. 2010)</p>
<p>1-(2-(4-(4-fluorophenyl)-1H-1,2,3-triazol-1-yl)ethyl)-3-phenyl-1H-pyrazolo[3,4-d]pyrimidin-4-amine (24)</p> 	<p>24</p>	<p>Breast cancer cell line (MDA-MB-361)</p>	<p>(Kumar, Ahmad et al. 2011)</p>
<p>Trifluoromethylated ferrocene triazole (25-28)</p> 	<p>25: M = Fe; n = 0; R = (CF₃)₂OH 26: M = Fe; n = 1; R = (CF₃)₂OH 27: M = Fe; n = 0; R = (CH₂SCF₃) 28: M = Ru; n = 1; R = (CF₃)₂OH</p>	<p>Breast cancer cell line (MCF-7), colon cancer cell line (HT-29), and pancreas cancer cell line (PT-45)</p>	<p>(Maschke, Lieb et al. 2012)</p>

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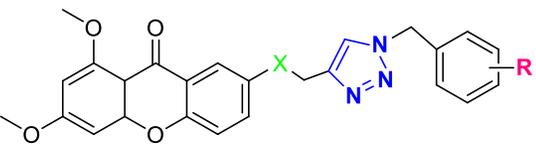
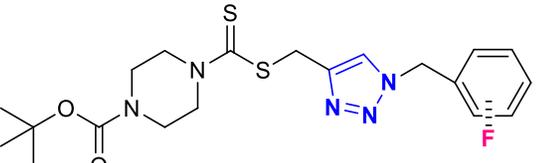
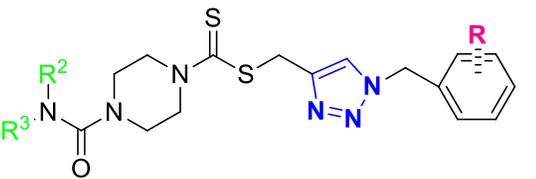
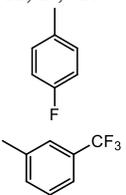
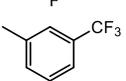
<p>1,3-Disubstituted-1,2,3-triazole (29-34)</p> 	<p>X= NH; R = 29: 2-F 30: 3-F 31: 4-F X= O; R = 32: 2-F 33: 3-F 34: 4-F</p>	<p>Hepatoma carcinoma cell line (Bel-7402) and human cervical carcinoma cell line (HeLa)</p>	<p>(Zou, Zhao et al. 2012)</p>
<p>Tert-butyl 4-(((1-(Fluorobenzyl)-1H-1,2,3-triazol-4-yl)methyl)thio)carbonothioyl)piperazine-1-carboxylate (35-36)</p> 	<p>35: <i>o</i>-F 36: <i>m</i>-F</p>	<p>Human gastric cancer cell line (MGC-803) and Human breast cancer cell line (MCF-7)</p>	<p>(Duan, Ma et al. 2013)</p>
<p>1,2,3-triazole-dithiocarbamate-urea hybrids (37-38)</p> 	<p>$R^2R^3NH = (CH_3)_2CHNH$ 37: $R^1 = o\text{-F}$ 38: $R^1 = p\text{-F}$</p>	<p>Human breast cancer cell line (MCF-7), Human gastric cancer cell line (MGC-803) and Hepatocellular carcinoma cell line (SMMC-7721), human esophageal cancer cell line (EC-9706)</p>	<p>(Duan, Zheng et al. 2013)</p>
<p>6-[(N1-aryl-1H-1,2,3-triazol-4-yl)methyl]-6H-indolo[2,3-b]quinoxalin-1 (39-43)</p>	<p>R = H, F; $R^1 =$</p>  <p>39:  40: </p>	<p>Cervical cancer cell line (HeLa), prostate cancer cell line (DU-145), and lung cancer cell line (A-549)</p>	<p>(Avula, Komsani et al. 2012)</p>

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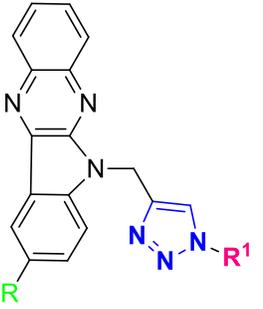
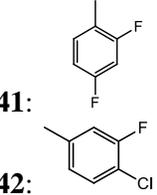
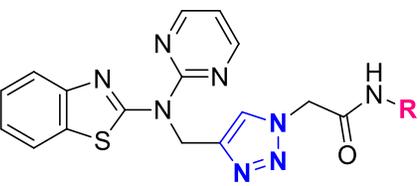
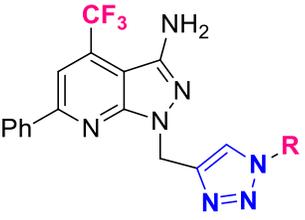
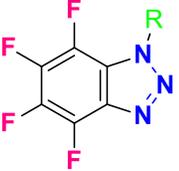
	 <p>41: 42:</p>		
<p>Novel triazole linked N-(pyrimidin-2-yl)benzo[d]thiazol-2-amine derivatives (43-50)</p> 	<p>43: R = CH₂-4-OCF₃C₆H₄ 44: R = 4-SCF₃C₆H₄ 45: R = 5(CF₃)-1,3,4-Thiazole 46: R = 4-F-benzothiazole morpholine 47: R = 4-FC₆H₄ 48: R = 2,4-FC₆H₃ 49: R = 3-CF₃C₆H₄ 50: R = (3-Cl-4-FC₆H₃)</p>	<p>Lung (A549), breast (MCF-7) and skin (A375) cancer cell lines</p>	<p>(Kumbhare, Dadmal et al. 2015)</p>
<p>1,2,3-triazole tagged pyrazolo[3,4-b]pyridine derivatives (51-56)</p> 	<p>R= 51: C₆F₁₃-CH₂-CH₂- 52: C₈F₁₇-CH₂-CH₂- 53: 3-Cl, 4-FC₆H₃- 54: 3-CF₃C₆H₄- 55: 4-FC₆H₄- 56: 3-F,4-BrC₆H₃-</p>	<p>Human monocytic leukemia (U937), human acute monocytic leukemia (THP-1), human promyelocytic leukemia (HL-60) and Mouse Me (B16-F10) cancer cell lines</p>	<p>(Kurumurthy, Veeraswamy et al. 2014)</p>
<p>4,5,6,7-tetrafluoro-1Aryl-benzo[d][1,2,3]triazole (57-60)</p> 	<p>57: R = H 58: R = Cl 59: R = H₃CO 60: R = (CH₃)₂N</p>	<p>Hep2 (laryngeal epidermoid carcinoma) cancer cells</p>	<p>(Prima, Baev et al. 2017)</p>

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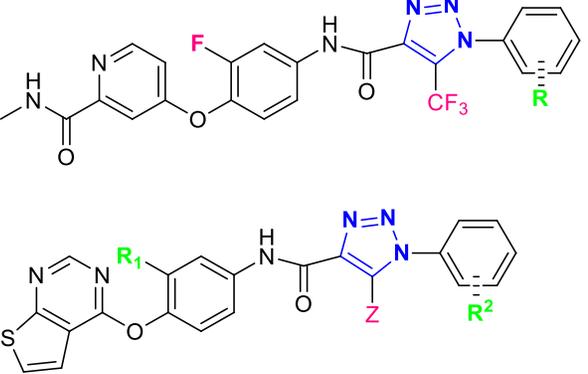
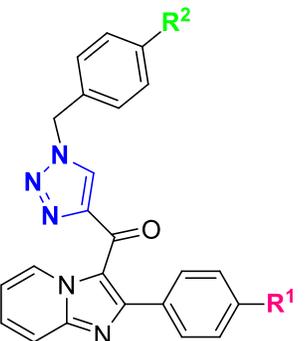
<p>Thinopyrimidine-triazole conjugates (61-71)</p> 	<p>Z = CF₃; R = 61: 2-CF₃; 62: 4-Cl; 63: 3-F-4-F 64: 3-F-4-Cl, 65: 4-Cl-3-CF₃ Z = CH₃ 66: 4-F</p> <p>R¹ = H; Z = CF₃; R² = 67: 2-CF₃ 68: 4-Cl 69: 3-F-4-F 70: 2-F-4-F 71: F-F-4-Cl</p>	<p>Human lung cancer cell line (A549), Human liver cancer cell line (HepG2) and Human breast cancer cell line (MCF-7).</p>	<p>(Wang, Xu et al. 2018)</p>
<p>(1-((Arylphenyl)-4-yl)methyl)-1H-1,2,3-triazol-4-yl)(2-(4-Arylphenyl)imidazo[1,2-a]pyridin-3-yl)methanone (72-74)</p> 	<p>R¹ = 4-fluorophenyl; 72: R² = OCH₃ 73: R² = H 74: R² = Cl</p>	<p>Human lung cancer (A549), Human prostate (HCT-116), and Human breast cancer cell (MDA-MB-231)</p>	<p>(Sayeed, Vishnuvardhan et al. 2018)</p>
<p>(1aR,7aS,10aS,10bR,E)-5-((4-(3,5-bis(trifluoromethyl)phenyl)-1H-1,2,3-triazol-1-yl)methyl)-1a-methyl-8-methylene-2,3,6,7,7a,8,10a,10b-octahydrooxireno[2',3':9,10]cyclodeca[1,2-b]furan-9(1aH)-one (75)</p>	<p>75</p>	<p>M9 ENL1 cell, and (AML#1, AML#2)</p>	<p>(Janganati, Ponder et al. 2018)</p>

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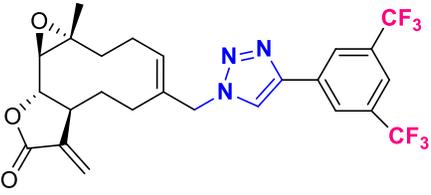
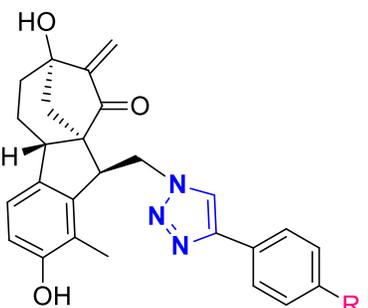
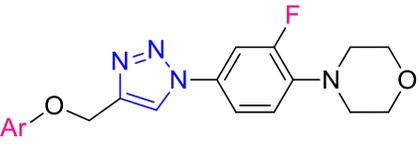
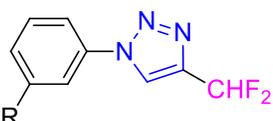
			
<p>(4bS,7S,9aR,10S)-10-((4-(Aryl-phenyl)-1H-1,2,3-triazol-1-yl)methyl)-2,7-dihydroxy-1-methyl-8-methylene-5,6,7,8-tetrahydro-4bH-7,9a-methanobenzo[a]azulen-9(10H)-one (76-77)</p> 	<p>76: R = F 77: R = CF₃</p>	<p>Human myeloid leukaemia (HL-60), human lung carcinoma (A549), human liver carcinoma (SMMC-7721), human colon carcinoma (SW480) and human breast carcinoma (MCF-7) cell lines</p>	<p>(Wu, Wu et al. 2018)</p>
<p>4-[3-fluoro-4-(morpholin-4-yl)]phenyl-1H-1,2,3-triazole (78-86)</p> 	<p>Ar = 78: C₆H₅, 79: 2-FC₆H₄, 80: 4-FC₆H₄ 81: 3MeC₆H₄, 82: 3,5 diMeC₆H₃ 83: 4MeOC₆H₄, 84: 3ClC₆H₄ 85: 3,5 diClC₆H₃, 86: 4-BrC₆H₄</p>	<p>Breast cancer cell line (MCF-7) and cervical carcinoma cell line (HeLa)</p>	<p>(Narsimha, Nukala et al. 2020)</p>
<p>Anti-bacterial Triazoles</p>			
<p>1-(4-Arylphenyl)-1H-1,2,3-triazole-4-carbaldehyde (87-89)</p> 	<p>87: R= 4-Cl 88: R= 4-Br 89: R= 4-CH₃</p>	<p>Mycobacterium tuberculosis</p>	<p>(Costa, Boechat et al. 2006)</p>

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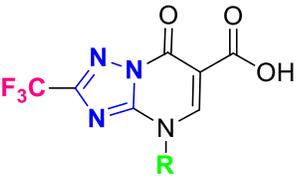
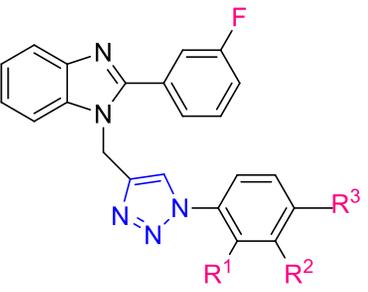
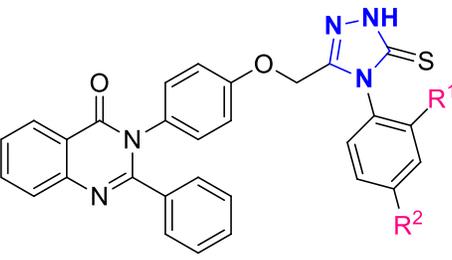
<p>4-Aryl-7-oxo-2-(trifluoromethyl)-4,7-dihydro-1,2,4-triazolo[5,1-a]pyrimidine-6-carboxylic acid (90-94)</p> 	<p>90: R = CH₃ 91: R = C₂H₅ 92: R = -CH₂CH=CH₂ 93: R = -CH₂-C₆H₄(4-Br) 94: R = -CH₂-C₆H₄(4-NO₂)</p>	<p>Mycobacterium tuberculosis</p>	<p>(Abdel-Rahman, El-Koussi et al. 2009)</p>
<p>2-(3-fluorophenyl)-1-((1-(Arylphenyl)-1H-1,2,3-triazol-4-yl)methyl)-1H-benzo[d]imidazole (95-100)</p> 	<p>95: R¹ = F; R² = F; R³ = F 96: R¹ = H; R² = F; R³ = F 97: R¹ = H; R² = F; R³ = H 98: R¹ = F; R² = H; R³ = Me 99: R¹ = F; R² = H; R³ = F 100: R¹ = H; R² = H; R³ = CF₃</p>	<p>(staphylococcus aureus, Pseudomonas aeruginosa) (Escherichia coli, Salmonella typhosa)</p>	<p>(Gill, Jadhav et al. 2008)</p>
<p>3-(4-((4-(Arylphenyl)-5-thioxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)methoxy)phenyl)-2-phenylquinazolin-4(3H)-one (101-102)</p> 	<p>101: R¹ = H; R² = F 102: R¹ = F; R² = F</p>	<p>Escherichia coli. Bacillus subtilis and Staphylococcus aureus.</p>	<p>(Havaladar, F. et al. 2008)</p>

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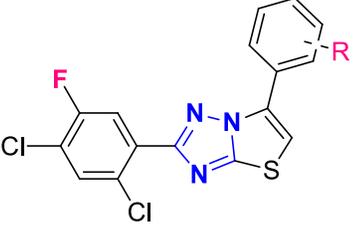
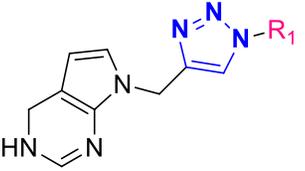
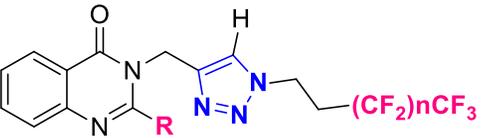
<p>(2-(2,4-dichloro-5-fluorophenyl)-6-(aryl)thiazolo[3,2-b][1,2,4]triazole) (103-110)</p> 	<p>103: R = 4-OCH₃ 104: R = 4-CH₃ 105: R = 4-F 106: R = 4-Cl 107: R = 4-Br 108: R = 4-NO₂ 109: R = 2,4-Cl₂ 110: R = 2,4-Cl₂-5-F</p>	<p>Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Streptococcus pyogenes and Klebsiella pneumoniae</p>	<p>(Karthikeyan 2009)</p>
<p>7-((1-(Aryl)-1H-1,2,3-triazol-4-yl)methyl)-4,7-dihydro-3H-pyrrolo[2,3-d]pyrimidine (111-112)</p> 	<p>111: R¹ = <i>o</i>-F-Ph, 112: R¹ = <i>p</i>-F-Ph</p>	<p>Mycobacterium tuberculosis</p>	<p>(Shiva Raju, AnkiReddy et al. 2019)</p>
<p>2-Aryl-3-((1-(Aryl)-1H-1,2,3-triazol-4-yl)methyl)quinazolin-4(3H)-one (113-118)</p> 	<p>113: R = C₆H₅; n = 5 114: R = C₆H₅; n = 7 115: R = 2,6-C₆H₃F₂; n = 5 116: R = 2,6-C₆H₃F₂; n = 7 117: R = CF₃; n = 5 118: R = CF₃; n = 7</p>	<p>Gram positive bacteria (Bacillus subtilis, Staphylococcus aureus, Staphylococcus epidermidis) and gram negative bacteria (Pseudomonas aeruginosa, Escherichia coli)</p>	<p>(Mani Chandrika, Yakaiah et al. 2010)</p>

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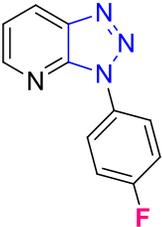
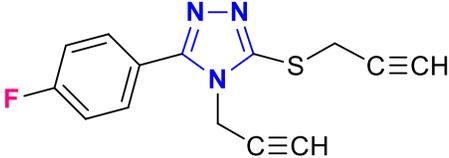
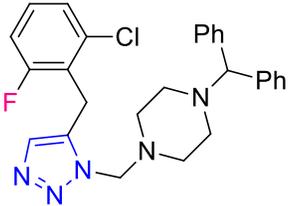
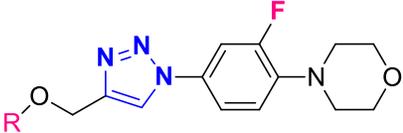
<p>3-(4-fluorophenyl)-3H-[1,2,3]triazolo[4,5-b]pyridine (119)</p> 	<p>119</p>	<p>Bacillus subtilis and Escherichia coli</p>	<p>(Marepu, Yeturu et al. 2018)</p>
<p>3-(4-fluorophenyl)-4-(prop-2-yn-1-yl)-5-(prop-2-yn-1-ylthio)-4H-1,2,4-triazole (120)</p> 	<p>120</p>	<p>Bacillus subtilis, Streptococcus pneumonia, Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, and Klebsiella pneumonia</p>	<p>(Rezki, Mayaba et al. 2016)</p>
<p>1-benzhydryl-4-((5-(2-chloro-6-fluorobenzyl)-1H-1,2,3-triazol-1-yl)methyl)piperazine (121)</p> 	<p>121</p>	<p>Staphylococcus aureus and Escherichia coli.</p>	<p>(Govindaiah, Sreenivasa et al. 2018)</p>
<p>4-(2-fluoro-4-(4-([2-Aryloxy]methyl)-1H-1,2,3-triazol-1-yl)phenyl)morpholine (122-123)</p> 	<p>122: R = </p> <p>123: R = </p>	<p>Bacillus subtilis, Staphylococcus aureus, and Staphylococcus epidermidis</p>	<p>(Narsimha, Nukala et al. 2020)</p>

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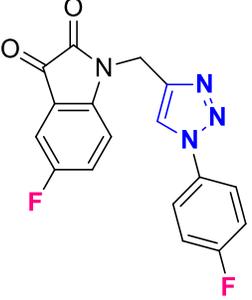
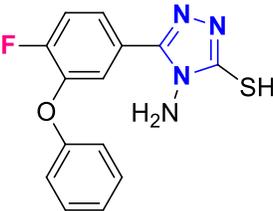
<p>5-fluoro-1-((1-(4-fluorophenyl)-1H-1,2,3-triazol-4-yl)methyl)indoline-2,3-dione (124)</p> 	<p>124</p>	<p>Staphylococcus epidermidis, Bacillus subtilis, Escherichia coli, and Pseudomonas aeruginosa</p>	<p>(Deswal, Naveen et al. 2020)</p>
<p>4-amino-5-(4-fluoro-3-phenoxyphenyl)-4H-1,2,4-triazole-3-thiol (125)</p> 	<p>125</p>	<p>Mycobacterium tuberculosis</p>	<p>(Venugopala, Kandeel et al. 2020)</p>
<p>3-(Aryl-phenyl)-4-(Aryl)-1H-1,2,4-triazole-5(4H)-thione (126-131)</p> 	<p>R¹ = <i>o</i>-F, R² = 126: 1-naph 127: <i>m</i>-tol 128: <i>p</i>-tol R¹ = <i>o</i>-F, <i>m</i>-F 129: R² = 1-naph 130: R² = <i>m</i>-tol 131: R² = <i>p</i>-tol</p>	<p>Staphylococcus aureus,</p>	<p>(Kosikowska, Wujec et al. 2020)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

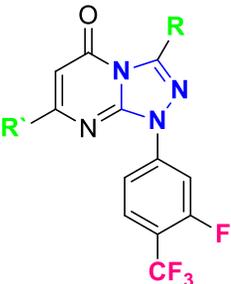
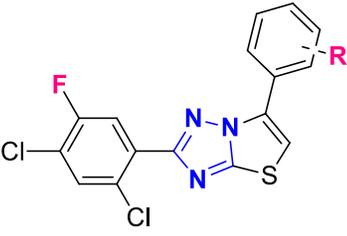
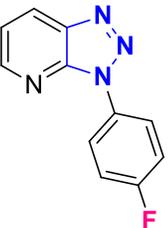
<p>3-Aryl-1-(3-fluoro-4-methylphenyl)-7Aryl-[1,2,4]triazolo[4,3-a]pyrimidin-5(1H)-one (132-135)</p> 	<p>R/R*: 132: a = COCH₃/CH₃ 133: b = COOEt /CH₃ 134: c = COCH₃/Ph 135: d = COOE/Ph</p>	<p>Bacillus subtilis and Escherichia coli</p>	<p>(Muhammad, Farghaly et al. 2021)</p>
<p>Antifungal Triazoles</p>			
<p>(2-(2,4-dichloro-5-fluorophenyl)-6-(aryl)thiazolo[3,2-b][1,2,4]triazole) (136-143)</p> 	<p>136: R = 4-OCH₃ 137: R = 4-CH₃ 138: R = 4-F 139: R = 4-Cl 140: R = 4-Br 141: R = 4-NO₂ 142: R = 2,4-Cl₂ 143: R = 2,4-Cl₂-5-F</p>	<p>Aspergillus niger, A. fumigatus, Candida albicans, Penicillium marneffeii, and Trichophyton mentagrophytes</p>	<p>(Karthikeyan 2009)</p>
<p>3-(4-fluorophenyl)-3H-[1,2,3]triazolo[4,5-b]pyridine (144)</p> 	<p>144</p>	<p>f.sp.Lycopersici. Fusarium oxysporium and Fusarium ricini</p>	<p>(Marepu, Yeturu et al. 2018)</p>
<p>2-Aryl-3-((1-(Aryl)-1H-1,2,3-triazol-4-yl)methyl)quinazolin-4(3H)-one (145-150)</p>	<p>145: R = C₆H₅; n = 5 146: R = C₆H₅; n = 7 147: R = 2,6-C₆H₃F₂; n = 5 148: R = 2,6-C₆H₃F₂; n = 7 149: R = CF₃; n = 5</p>	<p>Candida albicans, Saccharomyces cerevisiae and filamentous fungal culture like</p>	<p>(Mani Chandrika, Yakaiah et al. 2010)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

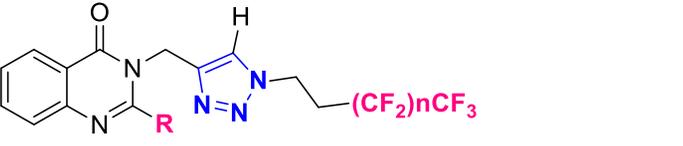
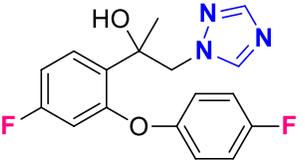
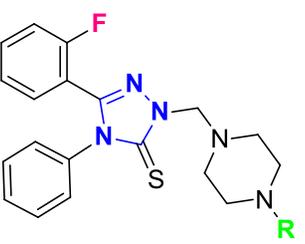
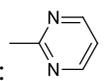
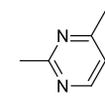
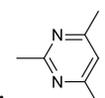
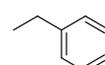
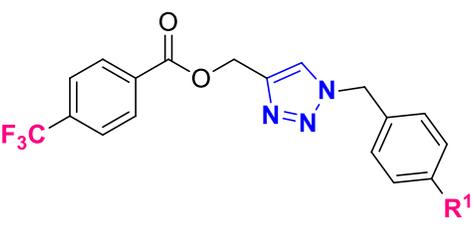
	<p>150: R = CF₃; n = 7</p>	<p>Rhizopus oryzae, Aspergillus flavus and Candida rugosa</p>	
<p>2-(4-fluoro-2-(4-fluorophenoxy)phenyl)-1-(1H-1,2,4-triazol-1-yl)propan-2-ol (151)</p> 	<p>151</p>	<p>Gibberella zeae, Alternaria solani, Fusarium oxysporium, Phylospora pirco</p>	<p>(Yang, Zhai et al. 2015)</p>
<p>N-(1-((4-substituted piper112 azin-1-yl)methyl)-3-methyl-5-thioxo-1H-1,2,4-triazol-4(5H)-yl)-2/3-fluorobenzamide (152-155)</p> 	<p>R=</p> <p>152:  153: </p> <p>154:  155: </p>	<p>Cercospora arachidicola, Phylospora piricola, Rhizoctonia cerealis</p>	<p>(Zhang, Wang et al. 2016)</p>
<p>(1-(Aryl)-1H-1,2,3-triazol-4-yl)methyl (trifluoromethyl)benzoate (156-157)</p> 	<p>156: R¹ = 4-F 157: R¹ = 4-F-C₆H₅</p>	<p>Aspergillus niger and Candida. albicans</p>	<p>(Deswal, Tittal et al. 2019)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

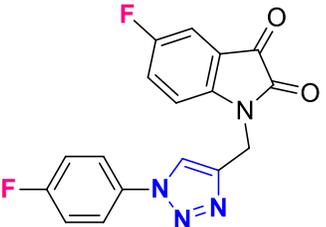
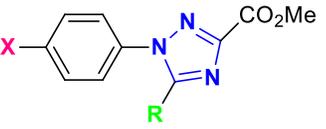
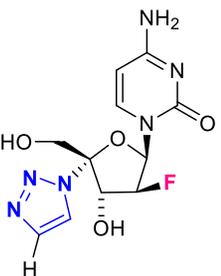
5-fluoro-1-((1-(4-fluorophenyl)-1H-1,2,3-triazol-4-yl)methyl)indoline-2,3-dione (158) 	158	Aspergillus niger, And Candida albicans,	(Deswal, Naveen et al. 2020)
Antiproliferative Triazoles			
Trifluoromethane-3,5-disubstituted 1,2,4-triazoles (159-162) 	159: X = p-F; R = Me 160: X = p-CF ₃ ; R = Me 161: X = m-CF ₃ ; R = Me 162: X = p-F; R = Et	NPC-TW01 And T-cell leukemia cell	(Wang, Tseng et al. 2011)
Antiviral Triazoles			
4-amino-1-((2R,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)-5-(1H-1,2,3-triazol-1-yl)tetrahydrofuran-2-yl)pyrimidin-2(1H)-one (163) 	163	293T cell line	(Wu, Yu et al. 2013)

Table-S1 (Chemical structures of compounds with names and target activity)

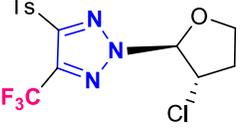
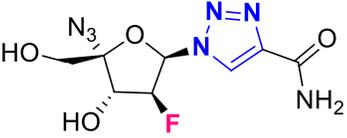
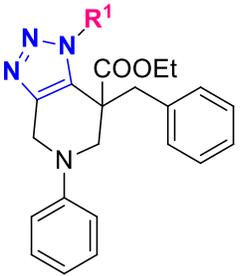
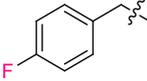
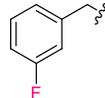
<p>2-(trans-3-Chlorotetrahydrofuran-2-yl)-4-tosyl-5-(trifluoromethyl)-1H-1,2,3-triazole (164)</p> 	<p>164</p>	<p>HSV-1, HSV-2 and HAdV5</p>	<p>(Biliavska, I., et al. 2017)</p>
<p>1-((2R,3S,4R,5R)-5-azido-3-fluoro-4-hydroxy-5-(hydroxymethyl) tetrahydrofuran-2-yl)-1H-1,2,3-triazole-4-carboxamide (165)</p> 	<p>165</p>	<p>Wild-type HBV</p>	<p>(Liu, Peng et al. 2018)</p>
<p>Ethyl 7-benzyl-1-(Aryl)-5-phenyl-4,5,6,7-tetrahydro-1H-[1,2,3]triazolo[4,5-c]pyridine-7-carboxylate (166-167)</p> 	<p>166: R¹ = </p> <p>167: R¹ = </p>	<p>Coronavirus (229E)</p>	<p>(Karypidou, Ribone et al. 2018)</p>
<p>Antimicrobial Triazoles</p>			
<p>2-(3-fluorophenyl)-1-((1-(Arylphenyl)-1H-1,2,3-triazol-4-yl)methyl)-1H-benzo[d]imidazole(168-173)</p>	<p>168: R¹ = F; R² = F; R³ = F 169: R¹ = H; R² = F; R³ = F 170: R¹ = H; R² = F; R³ = H 171: R¹ = F; R² = H; R³ = Me 172: R¹ = F; R² = H; R³ = F 173: R¹ = H; R² = H; R³ = CF₃</p>	<p>Staphylococcus aureus, Pseudomonas aeruginosa, Escherichia coli and Salmonella typhosa.</p>	<p>(Gill, Jadhav et al. 2008)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

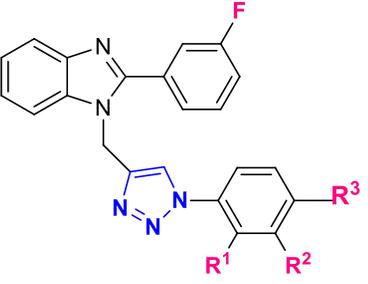
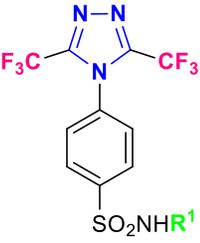
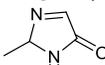
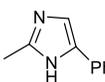
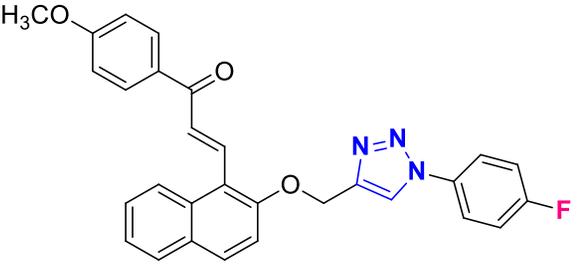
			
<p>N-di(trifluoroacetyl)sulfonamide (174-177)</p> 	<p>174: R¹ = H, 175: R¹ = CH₃CO, 176: R¹ =  177: R¹ = </p>	<p>Staphylococcus aureus, Escherichia coli, Aspergillus niger and Candida albicans</p>	<p>(Faidallah, Khan et al. 2011)</p>
<p>(E)-3-(2-((1-(4-fluorophenyl)-1H-1,2,3-triazol-4-yl)methoxy)naphthalen-1-yl)-1-(4-methoxyphenyl)prop-2-en-1-one (178)</p> 	<p>178</p>	<p>Staphylococcus epidermidis, Bacillus subtilis, Escherichia coli, Pseudomonas aeruginosa, Aspergillus niger and Candida albicans</p>	<p>(Yadav, Lal et al. 2018)</p>
<p>Herbicidal Triazoles</p>			

Table-S1 (Chemical structures of compounds with names and target activity)

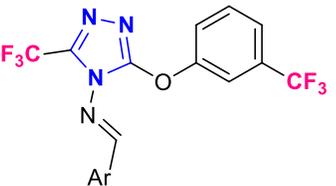
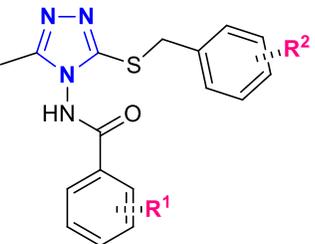
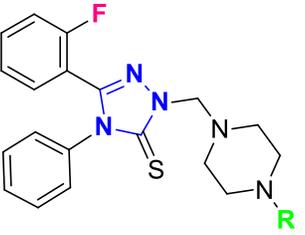
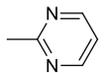
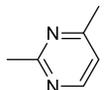
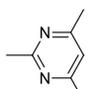
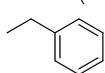
<p>(E)-N-(argiomethylene)-3-(trifluoromethyl)-5-(3-(trifluoromethyl)phenoxy)-4H-1,2,4-triazol-4-amine (179)</p> 	<p>179</p>	<p>Brassica campestris, and Echinochloa crus-galli</p>	<p>(Zhang and Shi 2014)</p>
<p>Aryl-N-(3-((Arylbenzyl)thio)-4H-1,2,4-triazol-4-yl)benzamide (180-185)</p> 	<p>R¹ = <i>o</i>-F; 180: R² = <i>o</i>-F 181: R² = <i>m</i>-F 182: R² = <i>p</i>-F R¹ = <i>m</i>-F; 183: R² = <i>o</i>-F 184: R² = <i>m</i>-F 185: R² = <i>p</i>-F</p>	<p>Brassica campestris, and Echinochloa crusgalli</p>	<p>(Liu, Weng et al. 2013)</p>
<p>N-(1-((4-substituted piper112 azin-1-yl)methyl)-3-methyl-5-thioxo-1H-1,2,4-triazol-4(5H)-yl)-2/3-fluorobenzamide (186-189)</p> 	<p>R =</p> <p>186: </p> <p>187: </p> <p>188: </p> <p>189: </p>	<p>Brassica campestris and Echinochloa crus-galli</p>	<p>(Zhang, Wang et al. 2016)</p>
<p>Inhibitory Triazoles</p>			

Table-S1 (Chemical structures of compounds with names and target activity)

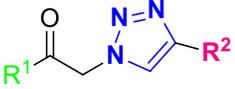
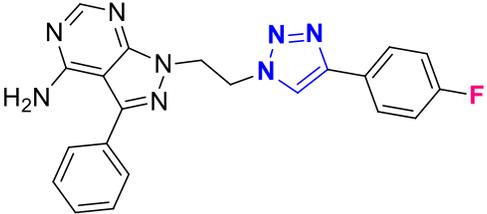
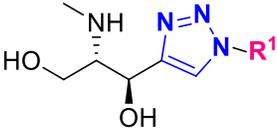
<p>Trifluoromethane-3,5-disubstituted 1,2,4-triazoles (190-193)</p> 	<p>190: X = <i>p</i>-F; R = Me 191: X = <i>p</i>-CF₃; R = Me 192: X = <i>m</i>-CF₃; R = Me 193: X = <i>p</i>-F; R = Et</p>	<p>Lung carcinoma, Nasopharyngeal, And T-cell leukemia (Jurkat) cells</p>	<p>(Wang, Tseng et al. 2011)</p>
<p>2-(4-(Aryl)-1H-1,2,3-triazol-1-yl)-1-phenylethanone (194-197)</p> 	<p>194: R¹ = C₆H₅; R² = 4-F-3-CH₃C₆H₃ 195: R¹ = 4-CH₃C₆H₄; R² = 4-F-3-CH₃C₆H₃ 196: R¹ = 4-ClC₆H₄; R² = 4-FC₆H₄ 197: R¹ = 4-BrC₆H₄; R² = 4-FC₆H₄</p>	<p>Src kinase</p>	<p>(Kumar, Reddy et al. 2011)</p>
<p>1-(2-(4-(4-fluorophenyl)-1H-1,2,3-triazol-1-yl)ethyl)-3-phenyl-1H-pyrazolo[3,4-d]pyrimidin-4-amine (198)</p> 	<p>198</p>	<p>Src kinase</p>	<p>(Kumar, Ahmad et al. 2011)</p>
<p>Tert-butyl((1S,2S)-1,3-dihydroxy-1-(1-Aryl-1H-1,2,3-triazol-4-yl)propan-2-yl) (199-201)</p> 	<p>199: R¹; C₁₁H₂₂CF₃ 61% 200: R¹; C₁₀H₂₀CF₂CF₃ 63% 201: R¹; C₉H₁₈CF₂CF₂CF₃ 69%</p>	<p>SPHK1 and SPHK2</p>	<p>(Escudero-Casao, Cardona et al. 2018)</p>
<p>2,3,5,6-tetrafluoro-4-(4-Aryl-1H-1,2,3-triazol-1-yl)benzenesulfinamide (202-209)</p>	<p>R = 202: C₆H₅ 203: BrCH₂CH₂ 204: MeOOC 205: <i>p</i>-Me-C₆H₄ 206: Cl(CH₂)₃</p>	<p>Isoform hCA I, II, IX and XII</p>	<p>(Pala, Micheletto et al. 2014)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

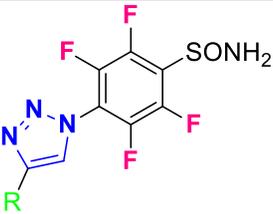
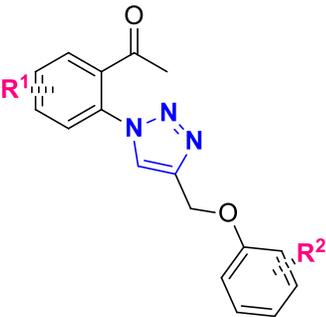
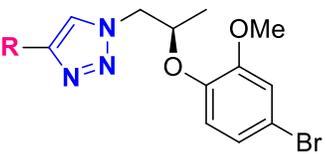
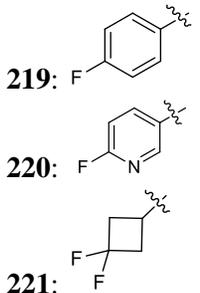
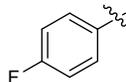
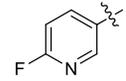
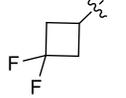
	<p>207: Cl(CH₂)₄ 208: HO-CH₂ 209: H₂N-CH₂</p>		
<p>2-(4-((Aryl-phenoxy)methyl)-Aryl-1,2,3-triazol-1-yl)benzamide(210-216)</p> 	<p>R¹= H; R² = 210: 4-F 211: 4-CF₃ 212: 3-CF₃ 213: 3,4-2F R¹= 4,5-2F; R² = 214: 4-F 215: 4-CF₃ 216: 3,4-2F</p>	Hdhodh	(Lu, Cai et al. 2018)
<p>(R)-1-(2-(4-bromo-2-methoxyphenoxy)propyl)-4-(Aryl)-4-yl)-1H-1,2,3-triazole (217-218)</p> 	<p>217: R = 2-CF₃C₆H₄ 218: R = 4-FC₆H₄</p>	α-glucosidase enzyme	(Avula, Khan et al. 2018)
<p>(S)-N-(3-(3-chloro-4-(trifluoromethoxy)phenyl)-1-((1-cyanocyclopropyl)amino)-1-oxopropan-2-yl)-2-(Aryl)-2H-1,2,3-triazole-4-carboxamide (219-221)</p>	<p>R=</p>  <p>219:  220:  221: </p>	Human cathepsin L (hCatL)	(Giroud, Kuhn et al. 2018)

Table-S1 (Chemical structures of compounds with names and target activity)

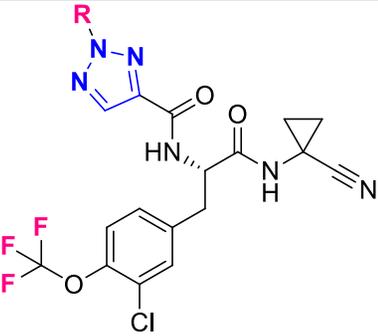
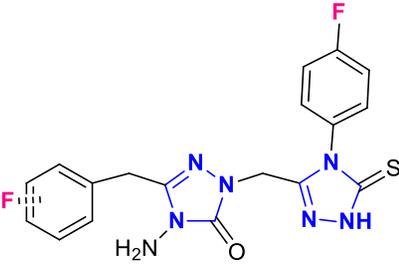
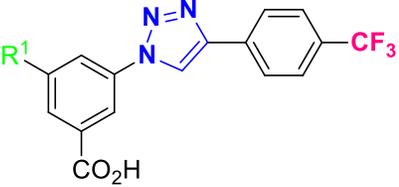
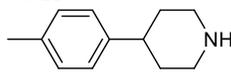
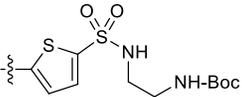
			
Antioxidant Triazoles			
<p>4-amino-3-(3/4-fluorobenzyl)-1-((4-(4-fluorophenyl)-5-thioxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)methyl)-1H-1,2,4-triazol-5(4H)-one (222-223)</p> 	<p>222: <i>m</i>-F 223: <i>p</i>-F</p>	<p>Jack bean urease</p>	<p>(Bekirican, O. et al. 2016)</p>
Antagonistic Triazoles			
<p>3-(Aryl)-5-(4-(4-(trifluoromethyl)phenyl)-1H-1,2,3-triazol-1-yl)benzoic acid (224-227)</p> 	<p>R¹ = 224: -OH 225:  226: </p>	<p>P2Y14R</p>	<p>(Yu, Ciancetta et al. 2018)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

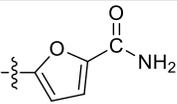
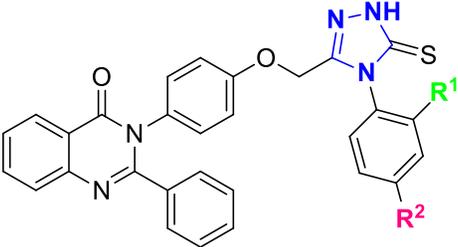
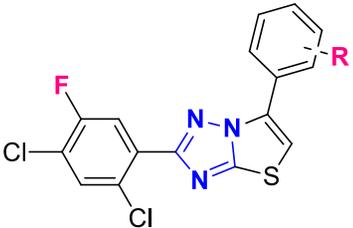
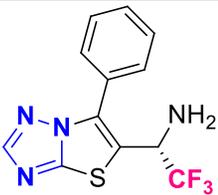
			
<p>227:</p>			
<p>Antimalarial Triazoles</p>			
<p>3-(4-((4-(Arylphenyl)-5-thioxo-4,5-dihydro-1H-1,2,4-triazol-3-yl)methoxy)phenyl)-2-phenylquinazolin-4(3H)-one (228-229)</p> 	<p>228: R¹ = H; R² = F 229: R¹ = F; R² = F</p>	<p>Plasmodium falciparum</p>	<p>(Havaladar, F. et al. 2008)</p>
<p>Anti-inflammatory Triazoles</p>			
<p>(2-(2,4-dichloro-5-fluorophenyl)-6-(aryl)thiazolo[3,2-b][1,2,4]triazole) (230 – 237)</p> 	<p>R = 230: 4-OCH₃ 231: 4-CH₃ 232: 4-F 233: 4-Cl 234: 4-Br 235: 4-NO₂ 236: 2,4-Cl₂ 237: 2,4-Cl₂-5-F</p>	<p><i>Escherichia coli</i>, <i>Staphylococcus aureus</i>, <i>Aspergillus niger</i> and <i>Candida albicans</i></p>	<p>(Karthikeyan 2009)</p>
<p>(R)-2,2,2-trifluoro-1-(6-phenylthiazolo[3,2-b][1,2,4]triazol-5-yl)ethanamine (238)</p>	<p>238</p>	<p>TT-TFM</p>	<p>(Tu, Yu et al. 2018)</p>

Table-S1 (Chemical structures of compounds with names and target activity)

			
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"<Antimalarial activity-1.pdf>."

"<Antioxidant activity-1.pdf>."

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